

Lincoln EMS

Cardiac Arrest Statistics

1997- December 31, 2003



Data Compiled by:
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Total Cardiac Arrests

1.a: Resuscitations Attempted

1997 = 146

1998 = 161

1999 = 181

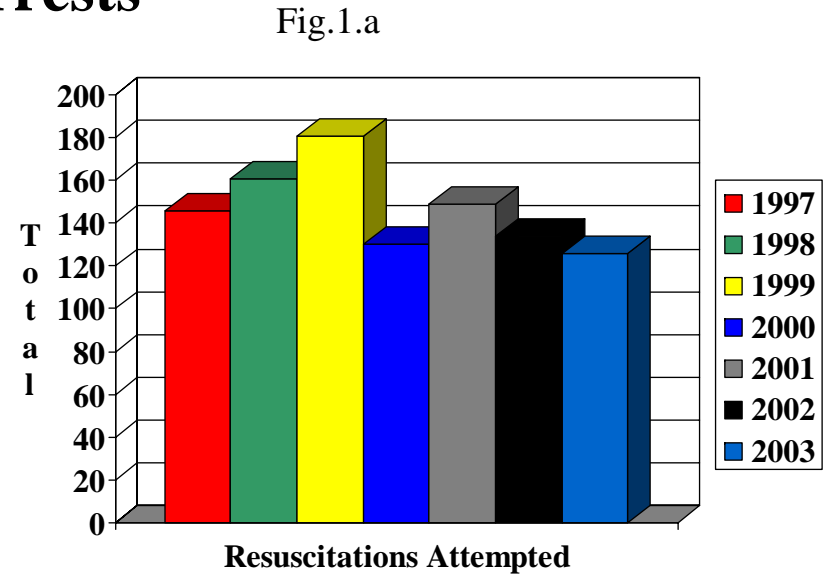
2000 = 130

2001 = 149

2002 = 134

2003 = 126

Definition: Total number of cardiac arrest patients that resuscitation was attempted by EMS.



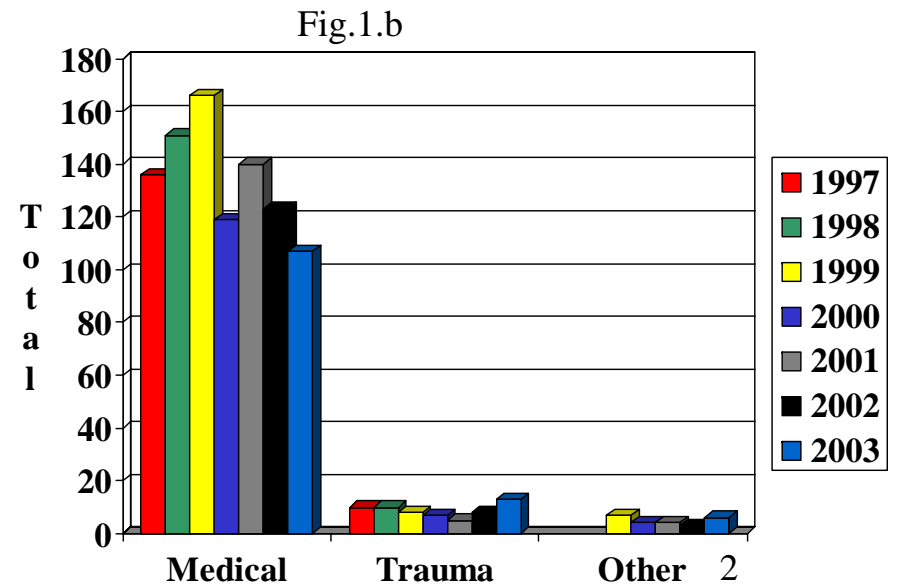
1.b: Cardiac Arrest Origin

	Medicals	Trauma	Other*
1997 =	136	10	--
1998 =	151	10	--
1999 =	166	8	7
2000 =	119	7	4
2001 =	140	5	4
2002 =	123	8	3
2003 =	107	13	6

Definition: Total number of cardiac arrests resulting from a presumed cause.

*Other includes Overdose, Hanging, Carbon Monoxide, etc.

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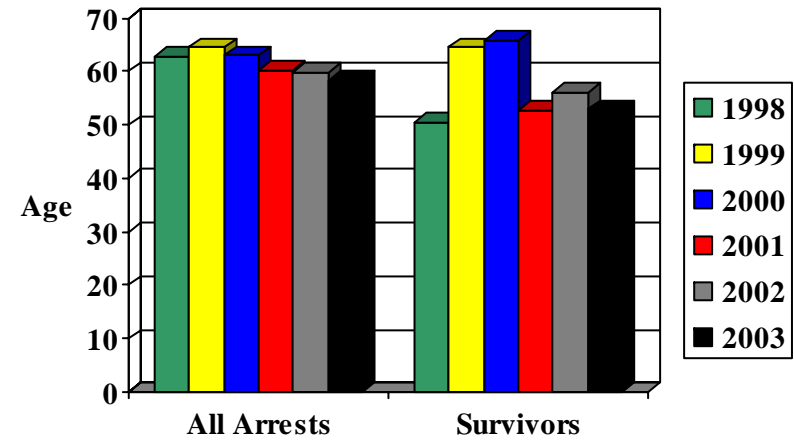


2.a: Average Age of Cardiac Arrests/Survivors

	All Arrests	Survivors
1998	62.9	50.6
1999	64.5	64.5
2000	63.0	65.9
2001	60.2	52.8
2002	59.9	56.1
2003	58.4	53.0

Definition: Average age of all cardiac arrest patients, and average age of cardiac arrest survivors.

Fig.2.a

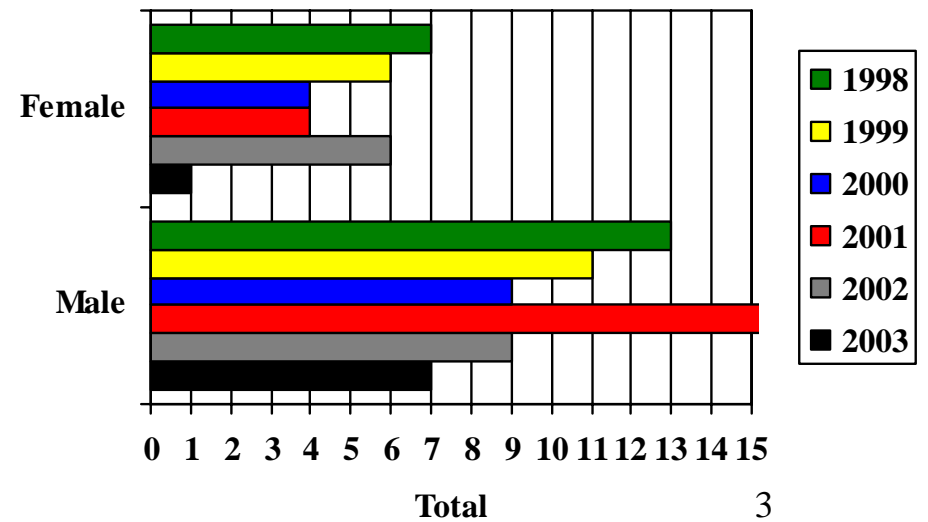


2.b: Cardiac Arrest Survivors by Gender

	Survivors		Total Number of
	Male	Female	Resuscitations Attempted
1998	13	7	161
1999	11	6	181
2000	9	4	130
2001	17	4	149
2002	9	6	134
2003	7	1	126

Definition: Total number of cardiac arrest survivors per gender.

Fig.2.b



ALS Skill Proficiency

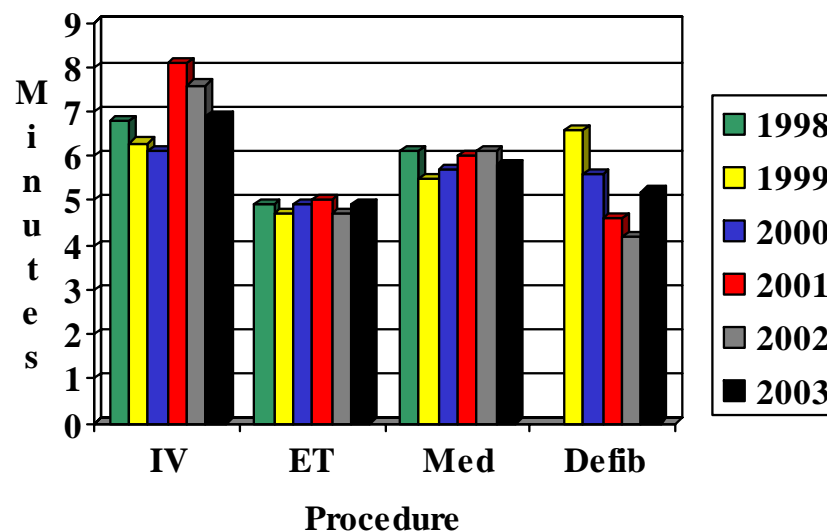
3.a: Advanced Life Support Skills (Minutes)

	IV Access	ET Intubation	Medication	Defibrillation*
1998	6.8	4.9	6.1	--
1999	6.3	4.7	5.5	6.6
2000	6.1	4.9	5.7	5.6
2001	8.1	5.0	6.0	4.6
2002	7.6	4.7	6.1	4.2
2003	6.9	4.9	5.8	5.2

Definition: IV, ET & Meds measured in minutes from provider arrival at scene to completion of skill.

*Defibrillation measured in minutes from time of dispatch to first countershock delivered.

Fig.3.a

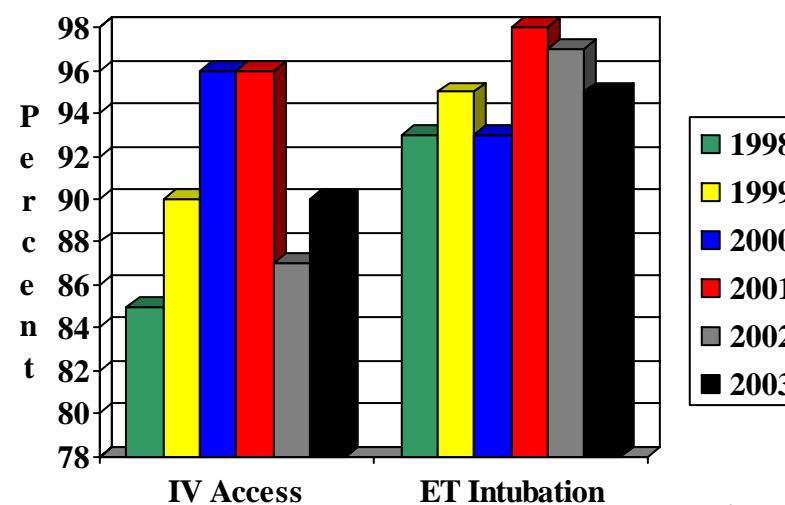


3.b: Percent of Patients Receiving Intubation/IV access

	IV Access	ET Intubation
1998	85%	93%
1999	90%	95%
2000	96%	93%
2001	96%	98%
2002	87%	97%
2003	90%	95%

Definition: Percentage of cardiac arrest patients that received the IV or ET Intubation when indicated.

Fig.3.b



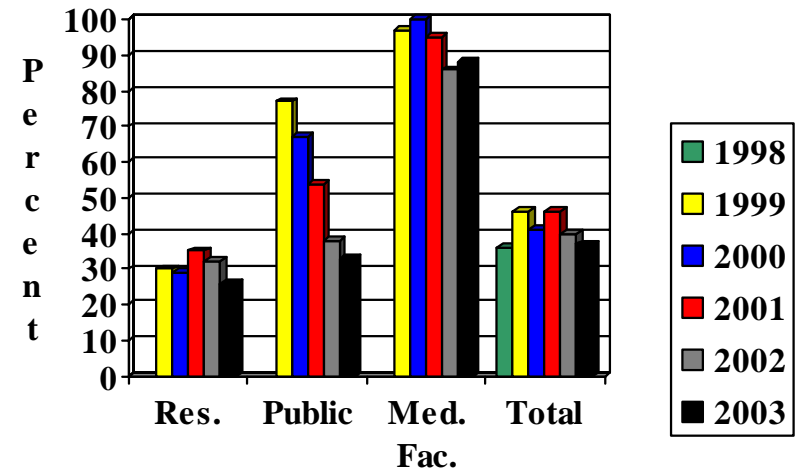
4.a: Percentage of Bystander CPR by Location of Arrest

	Residence	Public Place	Medical Facility*	Total
1998	--	--	--	36%
1999	30%	77%	97%	46%
2000	29%	67%	100%	41%
2001	35%	54%	95%	46%
2002	32%	38%	86%	40%
2003	26%	33%	88%	37%

Definition: Percentage of patients receiving bystander CPR, based upon the location of arrest.

*Medical Facility includes skilled care facilities and physician offices.

Fig.4.a



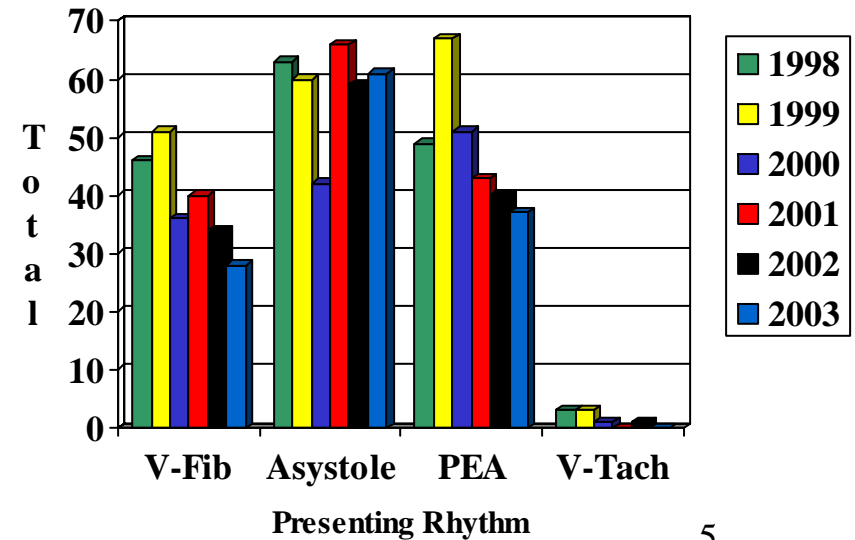
Location of Arrest

4.b: Initial Cardiac Arrest ECG Rhythm

	V-Fib	Asystole	PEA	V-Tach	Total
1998	46	63	49	3	161
1999	51	60	67	3	181
2000	36	42	51	1	130
2001	40	66	43	0	149
2002	34	59	40	1	134
2003	28	61	37	0	126

Definition: Initial cardiac rhythm as described by EMS upon initial assessment of the cardiac arrest patient.

Fig.4.b



5.a: Return of Spontaneous Circulation for all Cardiac Arrests

	In Field	At Hospital	Survival to Discharge*
1998	31%	22%	12%
1999	27%	24%	9.4%
2000	29.2%	23%	10%
2001	30.3%	26.3%	14.1%
2002	29.8%	23.1%	11.1%
2003	24.6%	21.4%	6.3%

Definition: The percentage of patients who had a return of a pulse during the period of pre-hospital care.

*Cardiac Arrest Survivor includes those patients that experience a loss of pulse and respirations while under the care of EMS and then are discharged alive from the hospital.

5.b: Return of Spontaneous Circulation by Initial Rhythm In the year 2003.

	V-Fib/Tach	Asystole	PEA	Total
# Treated	28	61	37	126
In Field	12(43%)	9(15%)	10(27%)	31(24.6%)
At Hospital	11(39%)	6(10%)	10(27%)	27(21.4%)
Discharged Alive	7(25%)	0(0%)	1(3%)	8 (6.3%)

Definition: The total number of patients with the return of a pulse, based upon presenting cardiac rhythm.

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Fig.5.a

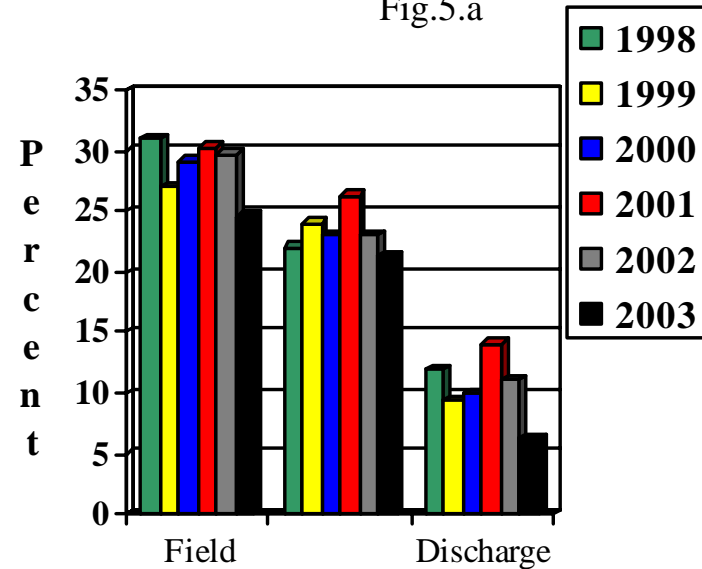
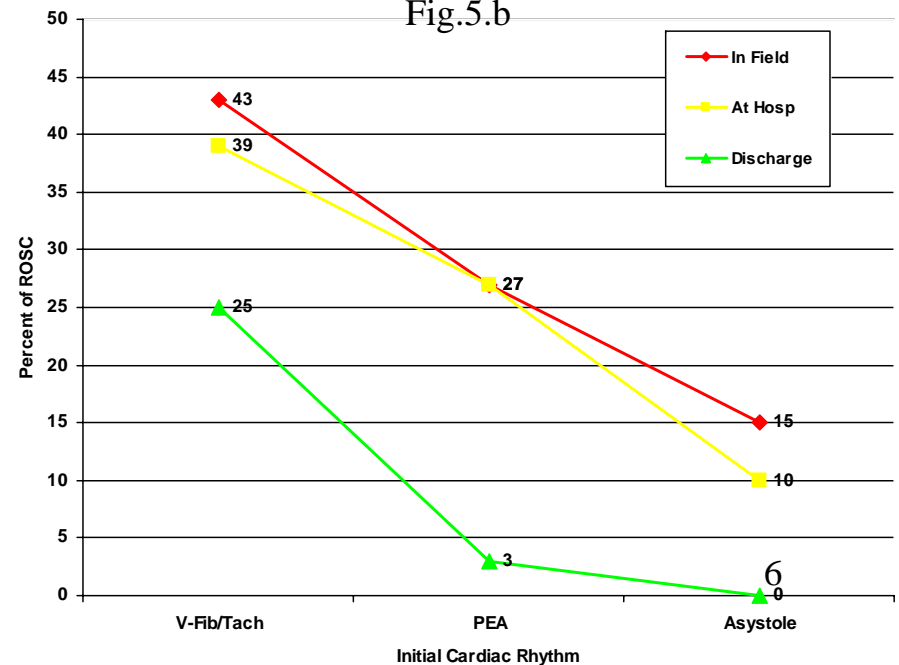
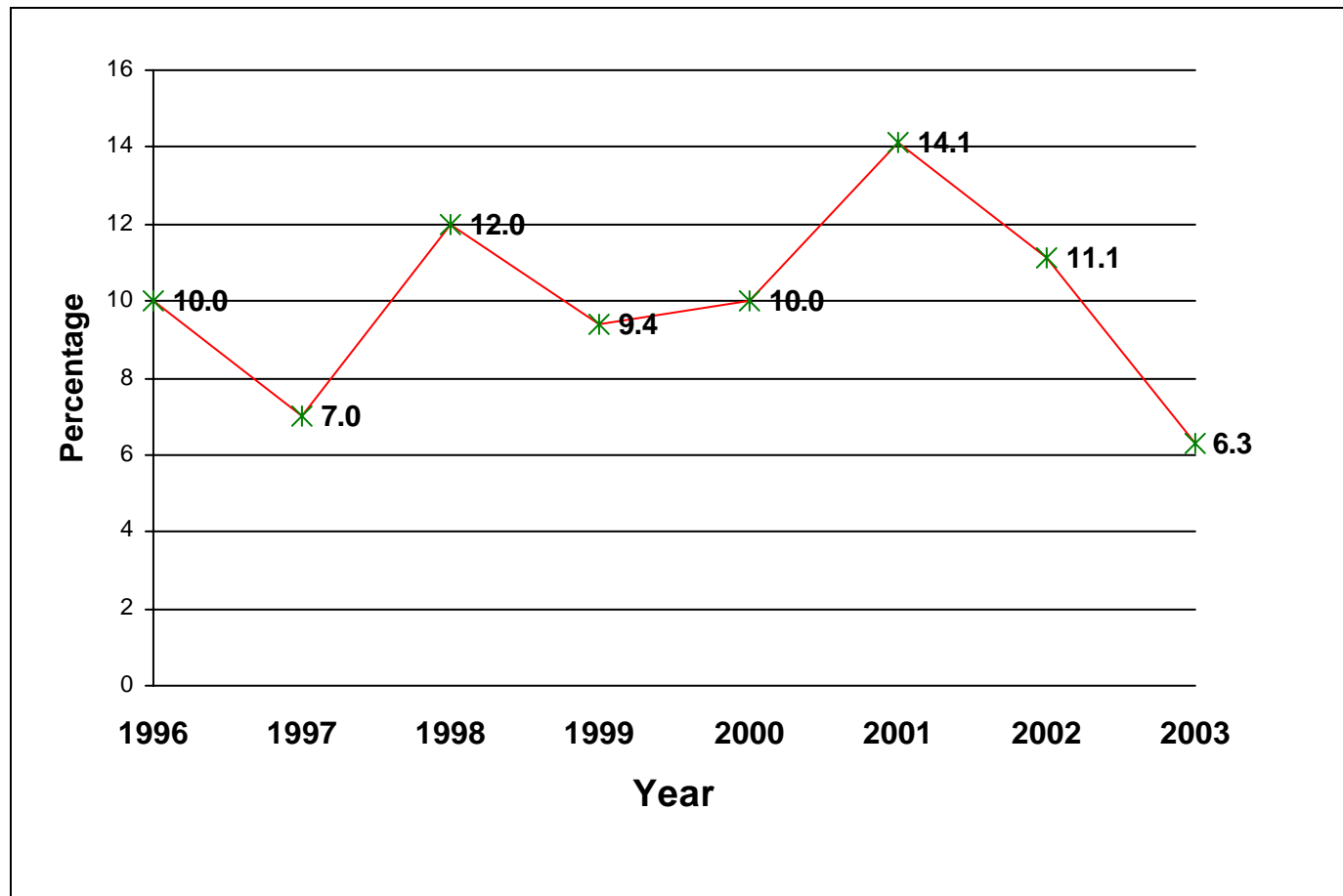


Fig.5.b



Survival of Cardiac Arrest Patients to Hospital Discharge



Definition: Percentage of patients resuscitated by EMS and survived to hospital discharge.